

GOTCHA !

**10 TIPS AND TRICKS FOR ENGAGED
LEARNING**

GOTCHA !

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MATT DANCHO



GOTCHA !





Workshop Wiki: GotchaTips.wikispaces.com





Why?





Elementary - 8 out of 10

Gallup Poll – January 2013





Middle School - 6 out of 10

Gallup Poll – January 2013





High School - 4 out of 10

Gallup Poll – January 2013



Learning is not a spectator sport.



1

Students are more engaged when they have the opportunity to collaborate with other students.



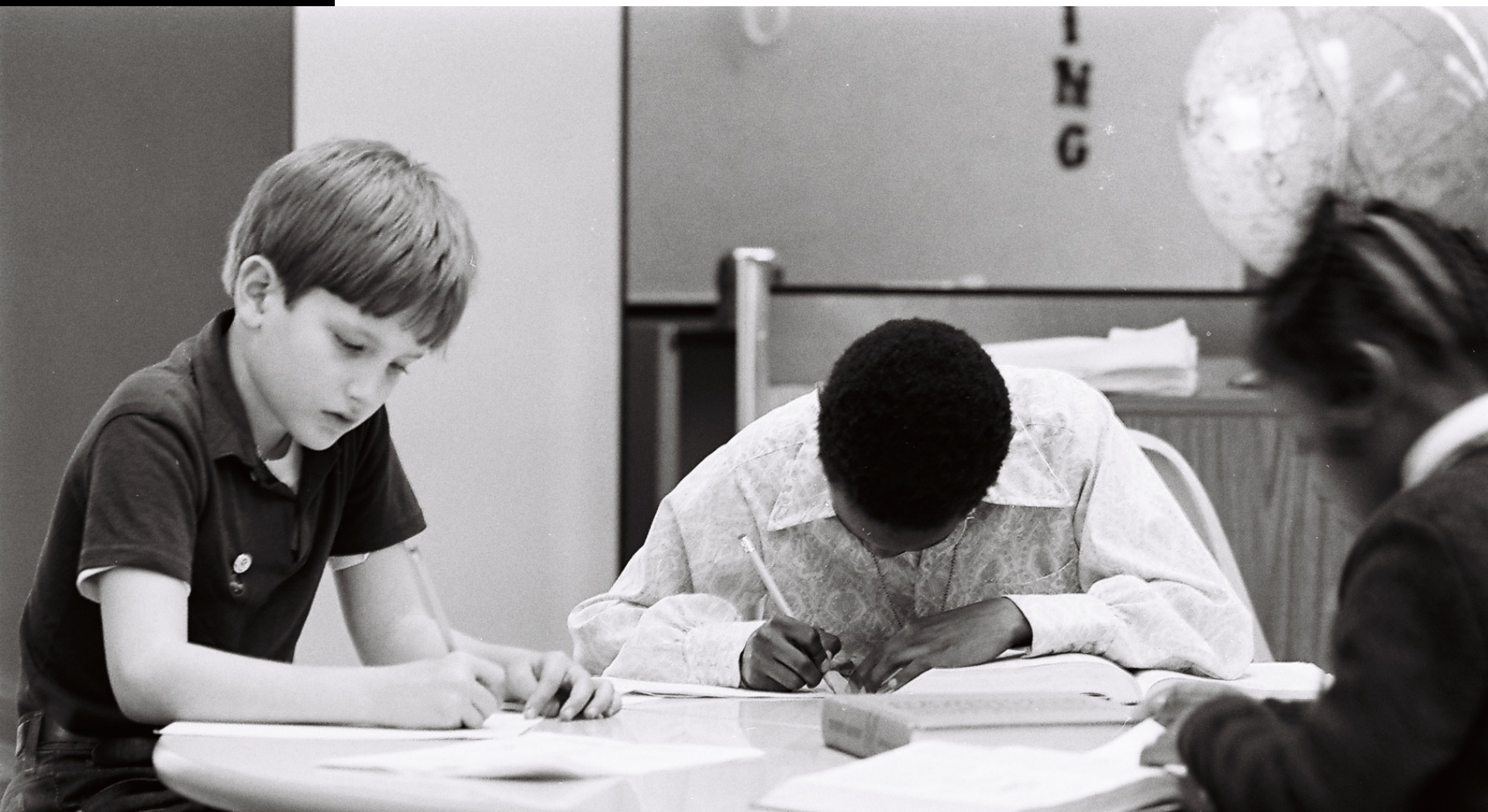
1

Think-Pair-Share

If you could write a recipe for engaged learning, what would its ingredients be?

2

Questions that stretch students' minds,
invite curiosity and provoke thinking
keep students engaged.



2

Good Questions



2

Good Questions

Creating



Remembering

How would you change the questioning strategy to engage students more?

How effective was his questioning technique?

How did the questions impact the students?

How can you use this example to improve your questions in lessons?

How would you describe his questioning?

What type of questions were asked?

<http://www.youtube.com/watch?v=uhiCFdWeQfA>

2

Good Question Resources

Bloom's Taxonomy Question Stems

Meade School District in South Dakota

Analysis

- Which events could have happened . . . ?
- If . . . happened, what might the ending have been?
- How was this similar to . . . ?
- What was the underlying theme of . . . ?
- What do you see as other possible outcomes?
- Why did . . . changes occur?
- Can you compare your . . . with that presented in . . . ?
- Can you explain what must have happened when . . . ?
- How is . . . similar to . . . ?
- What are some of the problems of . . . ?
- Can you distinguish between . . . ?
- What were some of the motives behind . . . ?
- What was the turning point in the game . . . ?
- What was the problem with . . . ?

2

Good Question Resources

Where the Wonders of Learning Never Cease

WONDEROPOLIS®

home wonders wonder playground nominate a wonder about contact

Wonder of the Day® #855

Feb. 4, 2013  4  10

How Do Boats Float?

We believe today's Wonder of the Day will really float your boat!

[read full wonder](#) |  33 comments



3

Students are more engaged if their work requires higher order thinking skills.



3

The Intel Ranking Tool

Project Name: Impact of Inventions

Project Description: In this project, you will consider how inventions have improved peoples' lives. You will research several inventions and then use the Visual Ranking Tool to evaluate the impact of these inventions and compare your ranking with your peers.

Prompt: Which inventions had the greatest impact on peoples' lives? Rank the inventions from the greatest impact to the least impact.

Compare your team with:

There is a strong positive correlation of 0.60

The screenshot displays the Intel Ranking Tool interface. At the top, it shows the project name 'Impact of Inventions' and a description of the project. Below the description is a prompt asking users to rank inventions by their impact on people's lives. The main part of the interface features two columns of invention cards. Each card has a small image of the invention and a text label. The cards are: Personal computer (green), Immunizations (red), Automobile (yellow), Refrigerator (orange), and Light bulb (green). Lines connect the cards between the two columns, indicating a ranking or comparison. The correlation value of 0.60 is displayed at the top of the interface.

Invention	Color
Personal computer	Green
Immunizations	Red
Automobile	Yellow
Refrigerator	Orange
Light bulb	Green

4

Students are more engaged when they try tasks without fear of embarrassment.



4

The Use of Interactive Response Devices



Level 1:

Level 3:

Level 5:

Level 7:

Level 10:

At what level is the Engage-O-Meter
in your classroom?

A

Lots of Blank Stares

B

General Lack of Interest

C

There's a Spark Occasionally

D

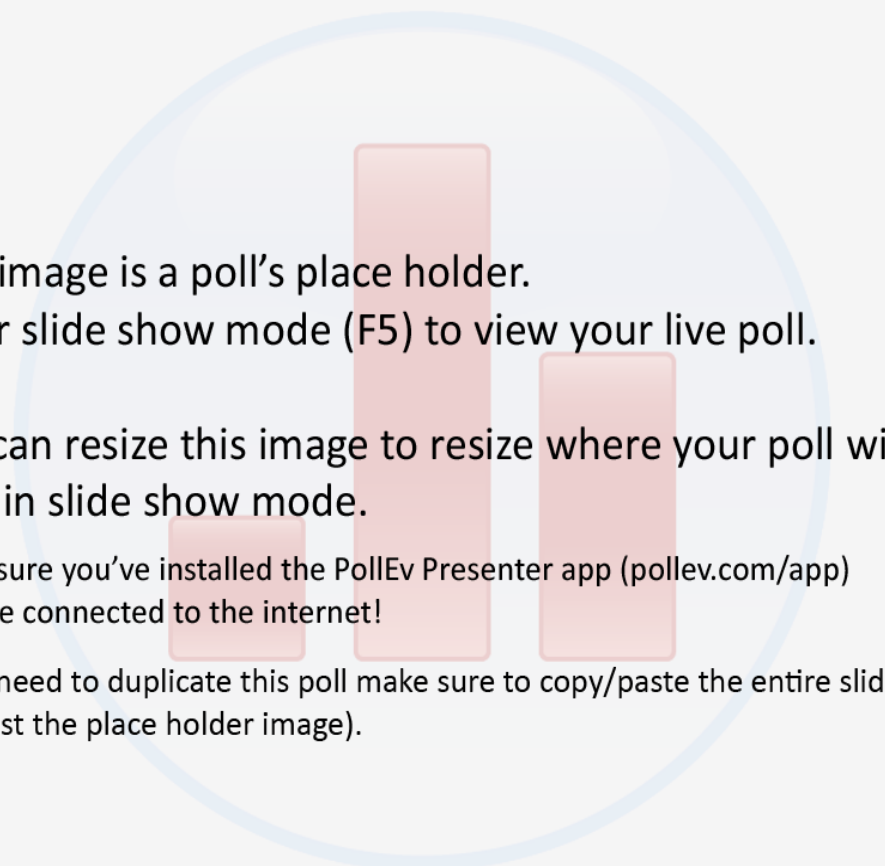
Usually Some Interest

E

Students are on the Edge of their Seats

4

The Use of Interactive Response Devices



This image is a poll's place holder.
Enter slide show mode (F5) to view your live poll.

You can resize this image to resize where your poll will load in slide show mode.

Make sure you've installed the PollEv Presenter app (pollev.com/app) and are connected to the internet!

If you need to duplicate this poll make sure to copy/paste the entire slide (not just the place holder image).

5

Students are more engaged in lessons that are meaningful and related to the real world.



5

Rolestorming

rolestorming =
roleplaying + brainstorming

5

Rolestorming

The Elements:

- 1.** Group brainstorming strategy
- 2.** Participants take on a new identity
- 3.** Results in new ideas

5

Rolestorming

Ideas  us

The Creative Crew

VisionWorks

The Think Tank

New Stuff

PR SOLUTIONS

5

Rolestorming

The Scenario:

You work for a advertising agency, and the PSEA has hired your firm to create public relations materials on Pennsylvania education.

The Task:

Create a billboard that communicates a public relations message about education.

5

Rolestorming



5

Rolestorming










5

Real World Resources

<http://worldometers.info>

Available Data

-  World Population
-  Society & Media
-  Environment
-  Food
-  Water
-  Energy
-  Health



World Population

7,092,537,217

Current World Population

[info](#) ▼

6,462,042

Births this year

[info](#) ▼

295,432

Births today

[info](#) ▼

2,759,881

Deaths this year

126,176

Deaths today

3,702,161

Net population growth **this year**

[info](#) ▼

5

Real World Resources

<http://www.usarightnow.com>

Available Data

-  Population
-  Economy
-  Society
-  Health
-  Energy
-  Media & Entertainment

population

this year

today

315,037,805 U.S. population right now

[info](#) ▼

5,874 births today

[info](#) ▼

3,994 deaths today

1,097 immigrants today

2,977 population growth today

6

Students are more engaged when they have the opportunity to present their work to an audience.



6

Audience



7

“I like to see pictures because it makes my understanding on a topic clearer.”



7

The Power of Images

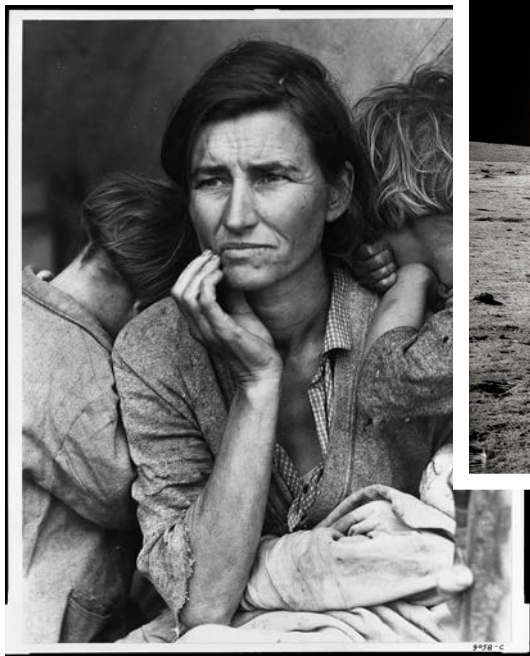
75% 

Improvement in learning
when relevant images
accompany text

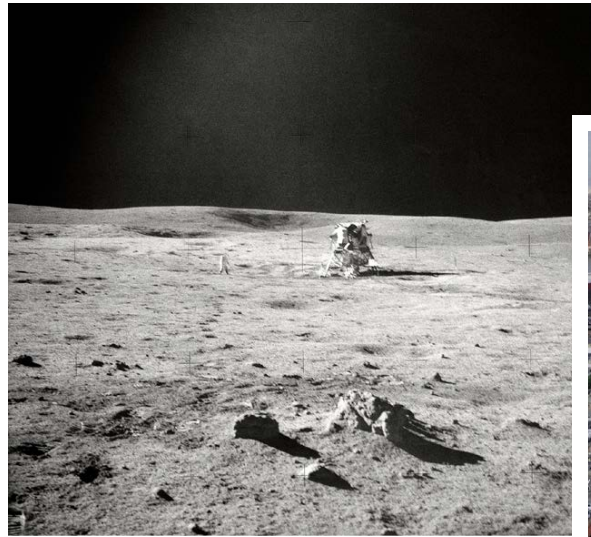
Research by Richard Mayer, 2001

7

The Power of Images



A Different Era



The Moon
Apollo 14
Mission



When Words are Not Enough

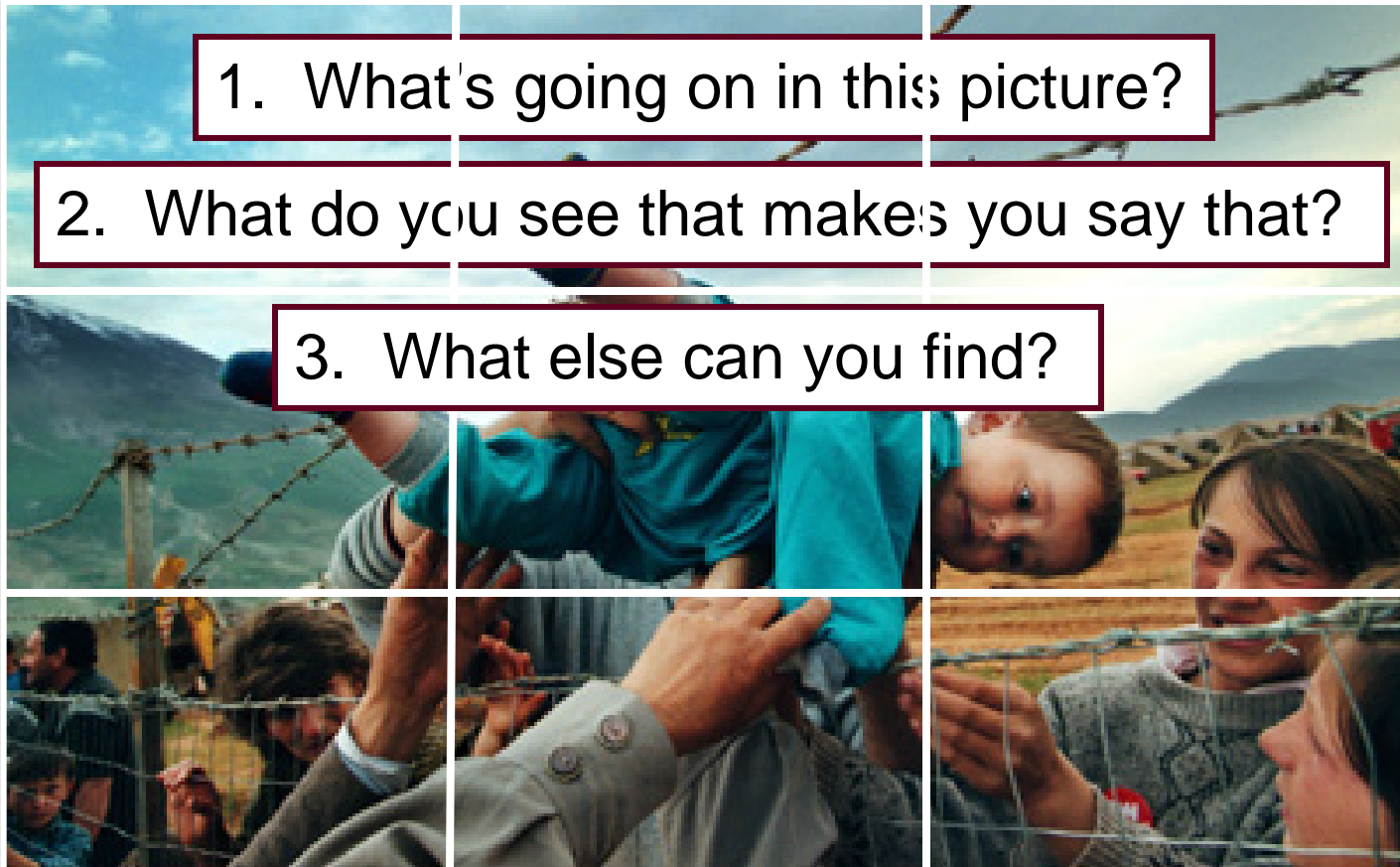
7

Visual Thinking Strategy

1. What's going on in this picture?

2. What do you see that makes you say that?

3. What else can you find?



The Washington Post's Pulitzer Prize-winning photo of Kosovo refugees in 2000. Photographer: Carol Guzy

7

The Power of Images

http://cct2.edc.org/PMA/image_detective/

IMAGE DETECTIVE

Read an image closely.
Think critically about turn of the century America.
Choose a picture to start.

Students:

[About this activity](#)

Teachers:

Use this exercise to build students' skills in analyzing historical documents

[More about the method](#)

SEE HOW A
SCHOLAR
INVESTIGATES
AN IMAGE



IMMIGRATION



CITIES



INDUSTRIALIZATION



THE WEST



LEISURE & AMUSEMENT



PROGRESSIVE REFORM



WOMEN & SUFFRAGE



CHILDREN



WORLD WAR I

8

Students are more engaged when their work results in the creation of a product.



8

Students are more engaged when their work results in the creation of a product.



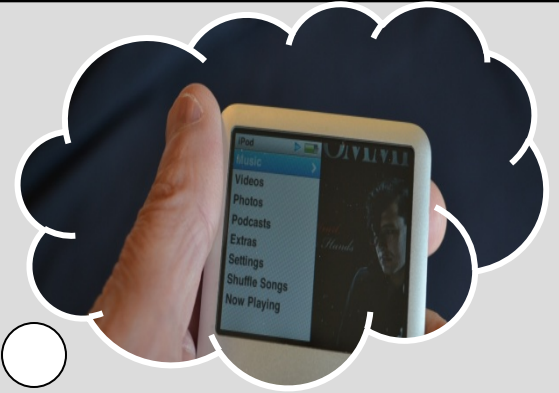
9

Students are more engaged in topics in which they have a choice.



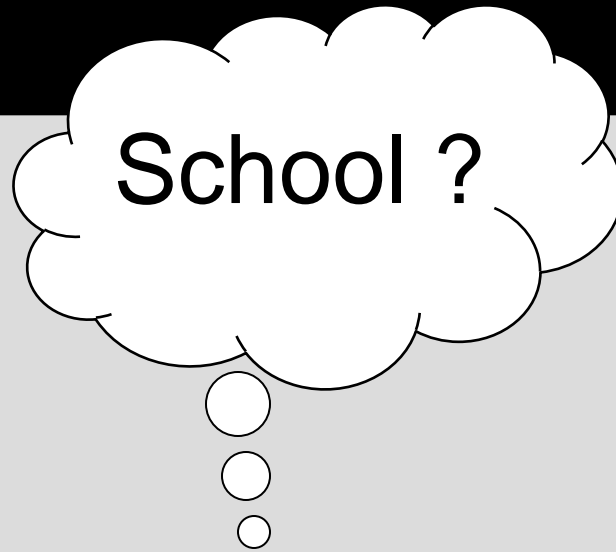
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Student Choice



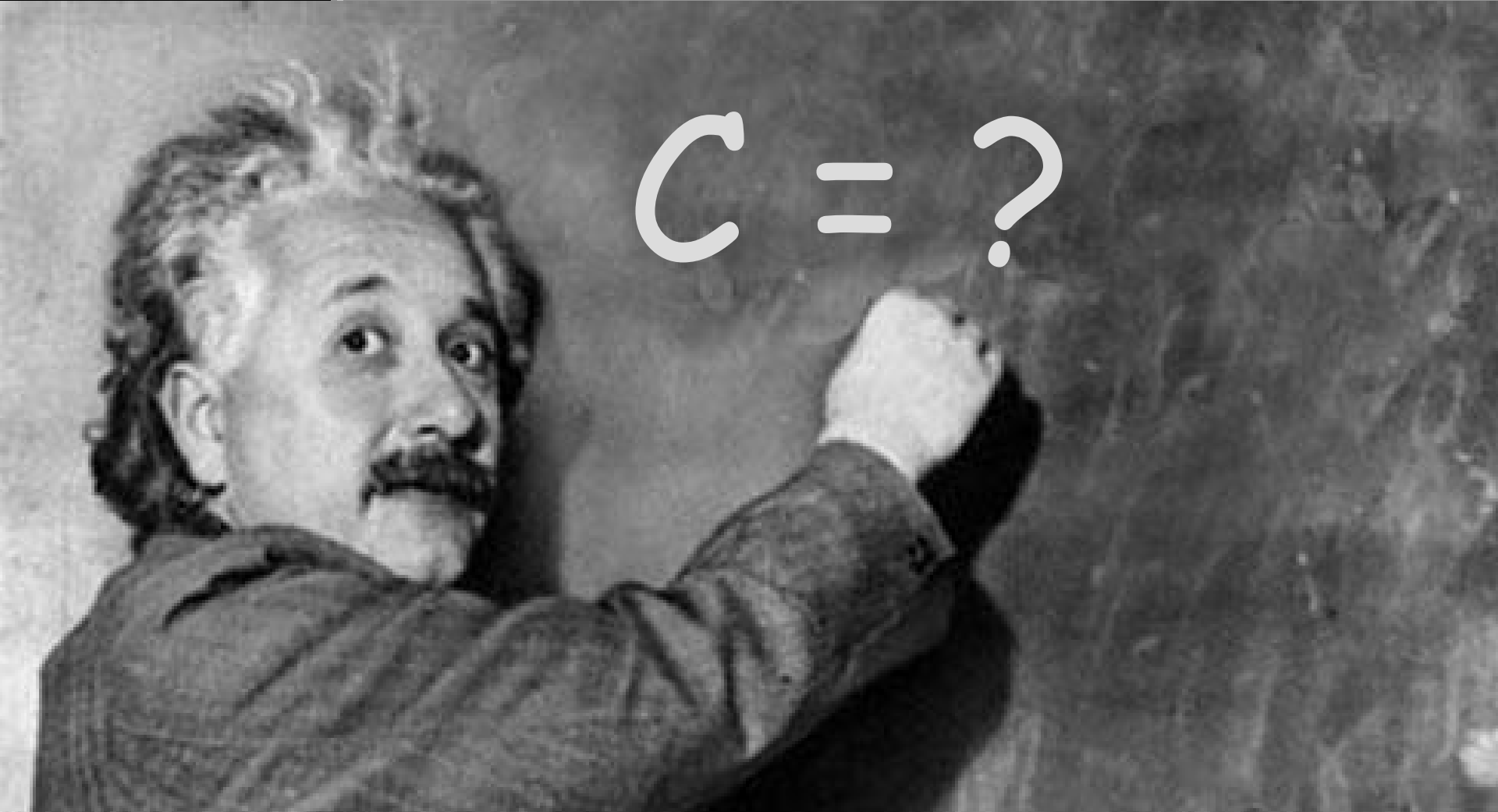
9

Student Choice



9

Student Choice

A black and white photograph of Albert Einstein, looking up and pointing his right index finger towards a chalkboard. The chalkboard has the equation $C = ?$ written on it in white chalk. Einstein is wearing a dark jacket and has his characteristic wild hair and mustache.
$$C = ?$$

9

Student Choice

Homework

- ✓ Assignment A
- ✓ Assignment B
- ✓ Assignment C

Extended Learning

- ✓ Topic A
- ✓ Topic B
- ✓ Topic C

Assignment Format

- ✓ Written
- ✓ Presentation
- ✓ Multimedia

10

“I don’t like doing only one activity
– a variety will keep me more
engaged in the topic.”



10

Mix It Up

<http://cli.ps/4m3g>



Mix It Up

Half Light

10

The Mystery Instructional Strategy

Clue 1	Clue 2	Clue 3
Clue 6	Mystery Instructional Strategy	Clue 5
Clue 4	Clue 7	Clue 8

10

Webquests

[Home](#)[Find WebQuests](#)[Create WebQuests](#)[Share WebQuests](#)[Useful Resources](#)[Community](#)[Research](#)[Bookshelf](#) **NEW**[News](#)

Latest news:

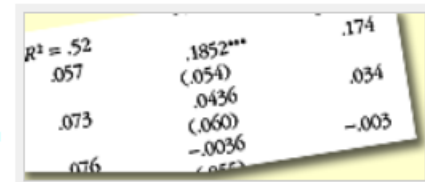
October 28, 2008:
WebQuest 101. A series of short

Welcome

You've arrived at the most complete and current source of information about the WebQuest Model. Whether you're an education student new to the topic or an experienced teacher educator looking for materials, you'll find something here to meet your needs.

Announcing: The WebQuest Research Consortium

Are you a doctoral student or faculty member interested in conducting research on WebQuests? You're invited to join a new informal group to exchange ideas, collaborate and co-author. We can capture data as QuestGarden users create their own WebQuests that open up interesting lines of inquiry about the planning process teachers use. Write bdodge@mail.sdsu.edu to learn more.



What is a WebQuest?

10

Webquests

TeacherWeb

The websites teachers actually use!

About Us

For Schools

For Teachers

For Parents & Students

Sign-Up

WebQuests

Support

WebQuests

What is a WebQuest?

WebQuests are completely web based lessons that are also aligned to state and national standards. TeacherWeb's WebQuests are created for educators by educators. All materials for completing the WebQuest are available on the site or through the internet links. A WebQuest is fully usable by teachers from any school. WebQuest content must include a "Task" and a "Process" towards a clear student deliverable. Any TeacherWeb user has the ability to create a WebQuest.

View a Starter WebQuest

(<http://www.teacherweb.com/AK/Appleton/WebQuest/>)

TeacherWeb Testimonials

"Thank you for the quick response. (This surely makes my first impressions even better with your wonderful tech support.) I did figure out how to navigate the site and it is FABULOUS! Very easy to use and make changes. I will make sure that other teachers in my district are aware of this wonderful web design site."

Pam K.

10

Webquests



The Online Teacher Resource

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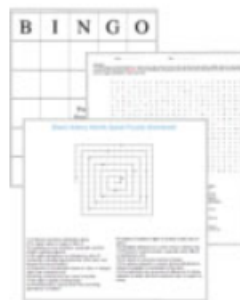
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- Over 30 Types Of Sheets

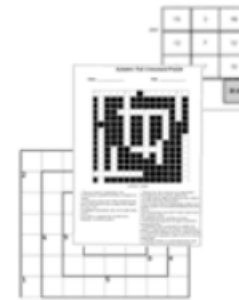
 [View Generators](#)



Instant Puzzles Makers In Seconds!


- Create 100s of Puzzles and Worksheets
- Endless Printables

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Find Out How Natural Gas is Clean, Safe & Affordable - ConocoPhillip 

10

Mix It Up

Discussions

Videos

Use More
Images

Independent
Work

Webquests

Real
World
Lessons

Collaborative
Work

Visual
Thinking
Strategy

Student
Feedback

Student
Choice

Creative
Thinking

Rolestorming

Higher
Order
Thinking
Skills

Think
Pair
Share

Ask Good
Questions

GOTCHA !

KEVIN CONNER
MATT DANCHO

8

**Students are more engaged when
they have the opportunity to
express their creativity.**





Questions



7

The Power of Images

